Translation

PATENT COUPERATION TREATY





(PCT Article 36 and Rule 70)

Applicant's or agent's file reference N729PCT	FOR FURTHER ACTION	See Notification of Tra Preliminary Examination Re	nsmittal of International port (Form PCT/IPEA/416)
International application No.	International filing date (day/m	• • • • • • • • • • • • • • • • • • • •	day/month/year)
PCT/FR2003/001082	04 avril 2003 (04.04.	24 avril	2002 (24.04.2002)
International Patent Classification (IPC) or n C07K 14/025	ational classification and IPC		
Applicant	NEOVACS et al		
This international preliminary examinated and is transmitted to the applicant action.	nation report has been prepared cording to Article 36.	y this International Prelimina	ary Examining Authority
2. This REPORT consists of a total of	5 sheets, including	this cover sheet.	
amended and are the basis for	ed by ANNEXES, i.e., sheets of this report and/or sheets contain Administrative Instructions unde	ng rectifications made before	drawings which have been re this Authority (see Rule
These annexes consist of a tot	al ofsheets.		
3. This report contains indications relat	ing to the following items:		
I Basis of the report			
II Priority			
III Non-establishment o	f opinion with regard to novelty,	nventive step and industrial	applicability
IV Lack of unity of inve	ntion		
V Reasoned statement citations and explana	under Article 35(2) with regard t tions supporting such statement	novelty, inventive step or in	dustrial applicability;
VI Certain documents ci	ted		
VII Certain defects in the	international application		
VIII Certain observations	on the international application		
Date of submission of the demand	Date of	ompletion of this report	
21 novembre 2003 (21.11	i	21 May 2004 (21	.05.2004)
Name and mailing address of the IPEA/EP	Authoriz	d officer	
Facsimile No.	Telepho	e No.	

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PREMINARY EXAMINATION REPORT

Internation	nal application No.
	T/FR2003/001082

I.	Basis (of the re	eport	
1.	With	regard to	the elements of the international application:*	
	\boxtimes	the inter	mational application as originally filed	
	\boxtimes	the desc	cription:	
		pages .	1-55	, as originally filed
		pages .		, filed with the demand
		pages	, filed with the letter of	
	\boxtimes	the clair	ms:	
		pages	1-23	, as originally filed
		pages	, as amended (together with any	statement under Article 19
		pages .		
		pages .	, filed with the letter of	
	\boxtimes	the drav	wings:	
		pages	1/13-13/13	
		pages		, filed with the demand
		pages .	, filed with the letter of	
	⊠ t	he seque	nce listing part of the description:	
		pages	1, 2	, as originally filed
		pages		
İ		pages .	, filed with the letter of	
	These	the lang the lang the lang or 55.3	to any nucleotide and/or amino acid sequence disclosed in the international ap	which is: o)). ation (under Rule 55.2 and/
	prelin	contain	xamination was carried out on the basis of the sequence listing: ned in the international application in written form.	
	鬥		egether with the international application in computer readable form. Led subsequently to this Authority in written form.	
	H		ned subsequently to this Authority in computer readable form.	
	\boxtimes	The st	tatement that the subsequently furnished written sequence listing does not go bey total application as filed has been furnished.	ond the disclosure in the
	\boxtimes		atement that the information recorded in computer readable form is identical to the varnished.	vritten sequence listing has
4.			the claims, Nos.	
			the drawings, sheets/fig	
5.			port has been established as if (some of) the amendments had not been made, since they the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	have been considered to go
*	in th	is report	sheets which have been furnished to the receiving Office in response to an invitation und t as "originally filed" and are not annexed to this report since they do not contai	
**		0.17). eplacem	ent sheet containing such amendments must be referred to under item 1 and annexed to th	is report.

INTERNATIONAL PRESENTATION REPORT

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1	Intern	λi	application No.
1		,	
ı	PCT/FI	2	03/01082
ı	ECT/E	٠,	03/01002

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-23	YES
	Claims	•	NO
Inventive step (IS)	Claims	1-23	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-23	YES
	Claims		NO

2. Citations and explanations

- 1. Reference is made to the following documents:
 - D1: WO 99 10375 A (LOMBARDO BENCHEIKH ANGELA; SMITHKLINE BEECHAM BIOLOG (BE); BRUCK C) 4 March 1999 (1999-03-04);
 - D2: US-B1-6 235 523 (GAJEWCZYK DIANE M ET AL)
 22 May 2001 (2001-05-22);
 - D3: FR-A-2 794 371 (BIOVECTOR THERAPEUTICS) 8 December 2000 (2000-12-08);
 - D4: WO 96 19496 A (EDWARDS STIRLING JOHN; CSL LTD (AU); COX JOHN COOPER (AU); FRAZER) 27 June 1996 (1996-06-27);
 - D5: EP-A-0 451 550 (BEHRINGWERKE AG) 16 October 1991 (1991-10-16);
 - D6: WO 01 14416 A (CHEN LING; MERCK & CO INC (US); SCHULTZ LOREN D (US); WANG XIN MIN) 1 March 2001 (2001-03-01).

2. <u>Novelty And Inventive Step (PCT Article 33(2) and 33(3)</u>

The present application relates to a vaccine composition that has no preventive or curative immunosuppressive properties with respect to cancer that is caused by a *Papillomavirus* infection. The active principle is a non-immunosuppressive mutated E7 protein containing the amino acid sequence.

Said mutated proteins contain amino acid sequences 1-19, 20-29 or 30-98 of SEQUENCE ID NO. 3.

None of the prior art documents discloses the subject matter of the application. It follows that claims 1-23 are considered to be novel.

Document D1 is considered to be the closest prior art. The content of D1, either alone or in combination with that of any one of documents D2 to D6, does not suggest the solution to the problem to be solved, i.e. that of developing an immunogenic or vaccine composition, which is non-immunosuppressive with respect to HPV infections.

As a result, claims 1-23 fulfil the PCT requirement of inventive step (PCT Article 33(3)).

3. <u>Industrial applicability (PCT Article 33(4))</u>

The subject matter of claims 1-23 appears to fulfil the requirement of industrial applicability.